

VOLUME 8, 1978

Author Index/Index des auteurs

Under each name are listed, in chronological order of publication, all articles in which an author has participated/Chaque notice indique, dans l'ordre chronologique de publication, tous les articles auxquels l'auteur a participé

- Aber, J.D.**
Predicting the effects of different harvesting regimes on forest floor dynamics in northern hardwoods
JOHN D. ABER, DANIEL B. BOTKIN, and
JERRY M. MELILLO 306
- Alban, D.H.**
Biomass and nutrient distribution in aspen, pine, and spruce stands on the same soil type in Minnesota
DAVID H. ALBAN, DONALD A. PERALA, and
BRYCE E. SCHLAEGEL 290
- Andre, P.**
Réactions 'organographiques' du pin laricio sous l'action de l'acide cacodylique
CHRISTIAN LHEUREUX et PIERRE ANDRE 111
- Arbez, M.**
Variabilité et hérédité de l'angle du fil du bois mesuré à l'aide d'un traceur radioactif chez le pin maritime et le pin laricio de Calabre
M. ARBEZ, PH. BARADAT, Y. BIROT, P. AZOEUF et
R. HOSLIN 280
- Auclair, A.N.D.**
Biomass distribution in a subarctic *Picea mariana* - *Cladonia alpestris* woodland
ANDREW N. RENCZ and ALLAN N.D. AUCLAIR 168
- Audy, E.**
Short-term influence of moose upon woody plants of an early seral wintering site in Gaspé Peninsula, Quebec
J. BÉDARD, M. CRÊTE, and E. AUDY 407
- Azoef, P.**
Variabilité et hérédité de l'angle du fil du bois mesuré à l'aide d'un traceur radioactif chez le pin maritime et le pin laricio de Calabre
M. ARBEZ, PH. BARADAT, Y. BIROT, P. AZOEUF et
R. HOSLIN 280
- Balsiger, J.W.**
Within-stand seedling dispersal for isolated *Pinus strobus* within hardwood stands
V.A. RUDIS, A.R. EK, and J.W. BALSIGER 10
- Baradat, Ph.**
Variabilité et hérédité de l'angle du fil du bois mesuré à l'aide d'un traceur radioactif chez le pin maritime et le pin laricio de Calabre
M. ARBEZ, PH. BARADAT, Y. BIROT, P. AZOEUF et
R. HOSLIN 280
- Barney, R.J.**
Biomass distribution and crown characteristics in two Alaskan *Picea mariana* ecosystems
RICHARD J. BARNEY, KEITH VAN CLEVE, and
ROBERT SCHLENTNER 36
- Basham, J.T.**
Kraft-pulping evaluation of decayed trembling aspen (*Populus tremuloides*) from Ontario
K. HUNT, J.T. BASHAM, and J.A. KEMPERMAN 181
- Baxter, S.M.**
Branch development on leaders of *Picea sitchensis*
SHELAGH M. BAXTER and MELVIN G.R. CANNELL 121
- Bédard, J.**
Short-term influence of moose upon woody plants of an early seral wintering site in Gaspé Peninsula, Quebec
J. BÉDARD, M. CRÊTE, and E. AUDY 407
- Beineke, W.F.**
Irrigation protects black walnut from frost damage
WALTER F. BEINEKE 346
- Birot, Y.**
Variabilité et hérédité de l'angle du fil du bois mesuré à l'aide d'un traceur radioactif chez le pin maritime et le pin laricio de Calabre
M. ARBEZ, PH. BARADAT, Y. BIROT, P. AZOEUF et
R. HOSLIN 280
- Blanchard, R.O.**
Electrical resistance related to phloem width in red maple
JONATHAN K. CARTER and
ROBERT O. BLANCHARD 90
- Blanchard, R.O.**
Effects of soil-applied potassium on cation distribution around wounds in red maple
ROBERT O. BLANCHARD, DESMOND SMITH, ALEX L. SHIGO, and L.O. SAFFORD 228

- Blanchette, R.A.**
A modified technique for the determination of fungal mass in decayed wood
S. GURUSIDDAIAH, ROBERT A. BLANCHETTE, and C. GARDNER SHAW 486
- Bloomberg, W.J.**
Heatsum-emergence relationship in Douglas-fir seedlings
W.J. BLOOMBERG 23
- Bonnet-Masimbert, M.**
Induction florale sur pousses d'août chez le Douglas (*Pseudotsuga menziesii*)
MARC BONNET-MASIMBERT et RENÉ LANARES 247
- Botkin, D.B.**
Predicting the effects of different harvesting regimes on forest floor dynamics in northern hardwoods
JOHN D. ABER, DANIEL B. BOTKIN, and JERRY M. MELILLO 306
- Bowdery, L.**
Effects of nursery seedbed density and topdressing fertilization on survival and growth of 3 + 0 red pine
R.E. MULLIN and L. BOWDERY 30
- Bowler, K.C.**
Spatial arrangement of lateral buds at the time that they form on leaders of *Picea* and *Larix*
M.G.R. CANNELL and K.C. BOWLER 129
- Bowler, K.C.**
Phyllotactic arrangements of needles on elongating conifer shoots: a computer simulation
M.G.R. CANNELL and K.C. BOWLER 138
- Bradbury, I.K.**
Dry matter accumulation by *Picea sitchensis* seedlings during winter
IAN K. BRADBURY and D.C. MALCOLM 207
- Britnell, W.E.**
Comparison of malt agar with malt agar plus ortho-phenylphenol for isolating *Armillaria mellea* and other fungi from conifer roots
R.D. WHITNEY, D.T. MYREN, and W.E. BRITNELL 348
- Burdett, A.N.**
Control of root morphogenesis for improved mechanical stability in container-grown lodgepole pine
A.N. BURDETT 483
- Burkhart, H.E.**
Allocating inventory resources for multiple-use planning
HAROLD E. BURKHART, R. DEAN STUCK, WILLIAM A. LEUSCHNER, and MARION R. REYNOLDS 100
- Byron, R.N.**
Community stability and forest policy in British Columbia
R.N. BYRON 61
- Cahill, M.J.**
A pattern of forest types on ribbed moraines in eastern Newfoundland
B.B. DELANEY and M.J. CAHILL 116
- Cannell, M.G.R.**
Branch development on leaders of *Picea sitchensis*
SHELAGH M. BAXTER and MELVIN G.R. CANNELL 121
- Cannell, M.G.R.**
Spatial arrangement of lateral buds at the time that they form on leaders of *Picea* and *Larix*
M.G.R. CANNELL and K.C. BOWLER 129
- Cannell, M.G.R.**
Phyllotactic arrangements of needles on elongating conifer shoots: a computer simulation
M.G.R. CANNELL and K.C. BOWLER 138
- Carter, J.K.**
Electrical resistance related to phloem width in red maple
JONATHAN K. CARTER and ROBERT O. BLANCHARD 90
- Christersson, L.**
Short-term temperature variation in needles of *Pinus sylvestris* L.
LARS CHRISTERSSON and ROLAND SANDSTEDT 480
- Cown, D.J.**
Comparison of annual ring density profiles in hardwoods and softwoods by X-ray densitometry
D.J. COWN and M.L. PARKER 442
- Crête, M.**
Short-term influence of moose upon woody plants of an early seral wintering site in Gaspé Peninsula, Quebec
J. BÉDARD, M. CRÊTE, and E. AUDY 407
- D'Aoust, A.L.**
Influence de l'irradiation sur la croissance de plants d'épinette noire en contenants placés dans deux enceintes de culture
ANDRÉ L. D'AOUST 316
- Delaney, B.B.**
A pattern of forest types on ribbed moraines in eastern Newfoundland
B.B. DELANEY and M.J. CAHILL 116
- Denne, M.P.**
Variation of fibre length within trees of *Fraxinus excelsior*
M.P. DENNE and V. WHITBREAD 253
- Densmore, R.**
Rooting potential of Alaskan willow cuttings
ROSEANN DENSMORE and JOHN C. ZASADA 477
- Dickmann, D.I.**
Marked differences among poplar clones in winter browsing damage by cottontail rabbits
DONALD I. DICKMANN 351

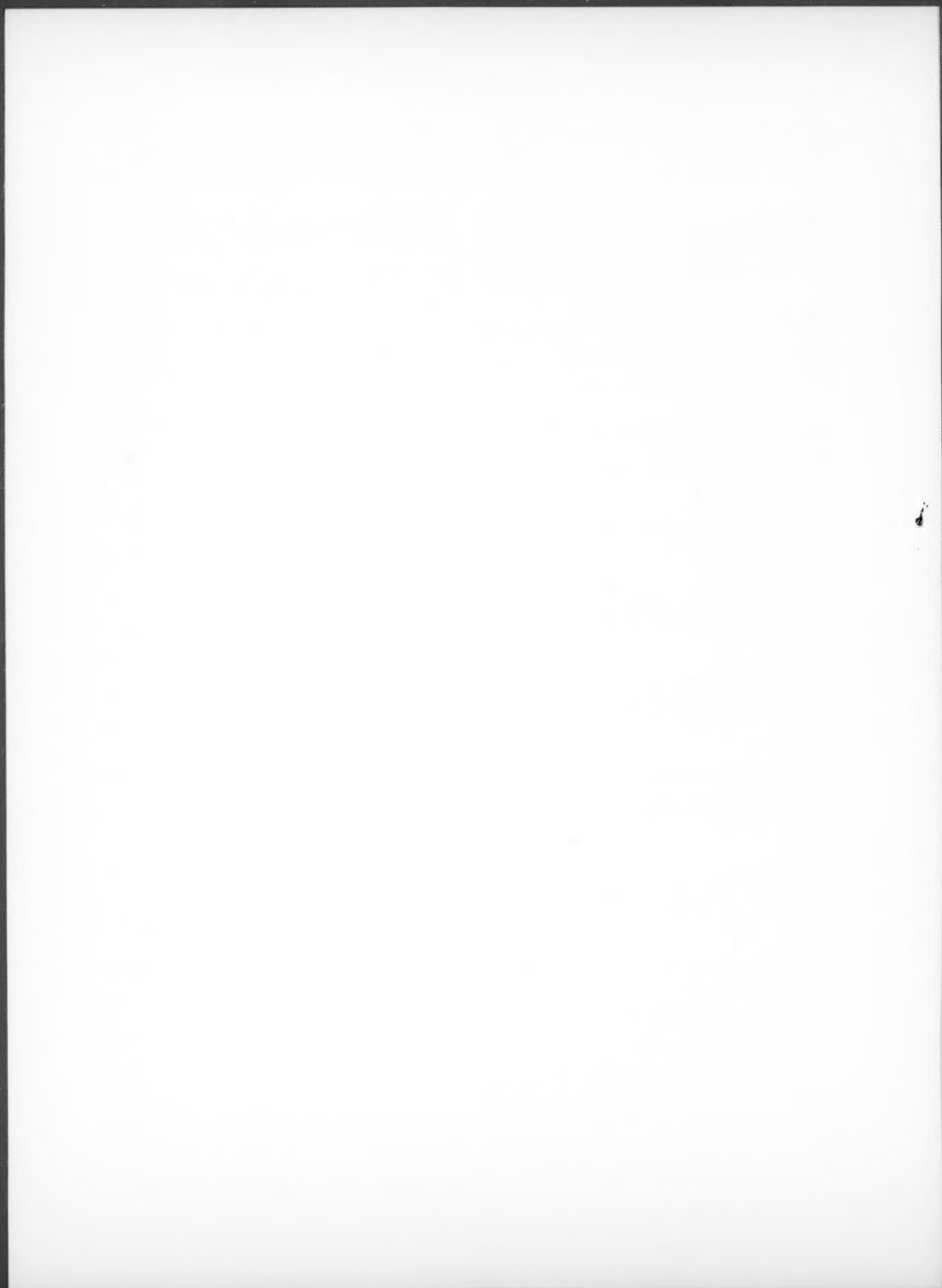
- Dixon, M.A.**
Electrical resistance measurements of water potential in avocado and white spruce
M.A. DIXON, R.G. THOMPSON, and D.S. FENSOM 73
- Drechsler, H.D.**
The impact of composite sampling and other data aggregation procedures on pollution detection in the pulp and paper industry
HERBERT D. DRECHSLER and PETER N. NEMETZ 328
- Durzan, D.J.**
Effect of fertilization of balsam fir trees on spruce budworm nutrition and development
G.G. SHAW, C.H.A. LITTLE, and D.J. DURZAN 364
- Ek, A.R.**
Within-stand seedling dispersal for isolated *Pinus strobus* within hardwood stands
V.A. RUDIS, A.R. EK, and J.W. BALSIGER 10
- Ek, A.R.**
Reduced growth, cull, and mortality of jack pine associated with sweetfern rust cankers
HENRY L. GROSS, ROBERT F. PATTON, and ALAN R. EK 47
- Fasehun, F.E.**
Effect of irradiance on growth and photosynthesis of *Populus x euramericana* clones
F.E. FASEHUN 94
- Fensom, D.S.**
Electrical resistance measurements of water potential in avocado and white spruce
M.A. DIXON, R.G. THOMPSON, and D.S. FENSOM 73
- Fisher, R.F.**
Allelopathic effects of goldenrod and aster on young sugar maple
R.F. FISHER, R.A. WOODS, and M.R. GLAVICIC 1
- Glavicic, M.R.**
Allelopathic effects of goldenrod and aster on young sugar maple
R.F. FISHER, R.A. WOODS, and M.R. GLAVICIC 1
- Golding, D.L.**
Snow accumulation and melt in small forest openings in Alberta
D.L. GOLDING and R.H. SWANSON 380
- Grier, C.C.**
A *Tsuga heterophylla* - *Picea sitchensis* ecosystem of coastal Oregon: decomposition and nutrient balances of fallen logs
CHARLES C. GRIER 198
- Gross, H.L.**
Reduced growth, cull, and mortality of jack pine associated with sweetfern rust cankers
HENRY L. GROSS, ROBERT F. PATTON, and ALAN R. EK 47
- Gurusiddaiah, S.**
A modified technique for the determination of fungal mass in decayed wood
S. GURUSIDDAIAH, ROBERT A. BLANCHETTE, and C. GARDNER SHAW 486
- Hardy, Y.J.**
An assay of sequential application of Fenitrothion and *Bacillus thuringiensis* for an integrated control of the spruce budworm
W.A. SMIRNOFF and Y.J. HARDY 300
- Hare, R.C.**
Effect of shoot girdling and season on rooting of slash pine cuttings
ROBERT C. HARE 14
- Harvey, A.E.**
N₂ fixation associated with wood decayed by some common fungi in western Montana
MICHAEL J. LARSEN, MARTIN F. JURGENSEN, and ALAN E. HARVEY 341
- Hawkes, B.C.**
Distribution and chemistry of fine roots in a white spruce - subalpine fir stand in British Columbia: implications for management
J.P. KIMMINS and B.C. HAWKES 265
- Hodgson, M.J.**
Location-allocation models for one-strike initial attack of forest fires by airtankers
M.J. HODGSON and R.G. NEWSTEAD 145
- Hoslin, R.**
Variabilité et hérédité de l'angle du fil du bois mesuré à l'aide d'un traceur radioactif chez le pin maritime et le pin laricio de Calabre
M. ARBEZ, PH. BARADAT, Y. BIROT, P. AZOELIF et R. HOSLIN 280
- Hunt, K.**
Kraft-pulping evaluation of decayed trembling aspen (*Populus tremuloides*) from Ontario
K. HUNT, J.T. BASHAM, and J.A. KEMPERMAN 181
- Johnson, A.L.S.**
Stump colonization and spread of *Fomes annosus* 5 years after thinning
D.J. MORRISON and A.L.S. JOHNSON 177
- Jurgensen, M.F.**
N₂ fixation associated with wood decayed by some common fungi in western Montana
MICHAEL J. LARSEN, MARTIN F. JURGENSEN, and ALAN E. HARVEY 341
- Keister, T.D.**
Southern pine stem form defined through principal component analysis
C.J. LIU and T.D. KEISTER 188

- Kemperman, J.A.**
Kraft-pulping evaluation of decayed trembling aspen
(*Populus tremuloides*) from Ontario
K. HUNT, J.T. BASHAM, and J.A. KEMPERMAN 181
- Kimmings, J.P.**
Distribution and chemistry of fine roots in a white spruce -
subalpine fir stand in British Columbia: implications for
management
J.P. KIMMINGS and B.C. HAWKES 265
- Kozak, A.**
The potential of Weibull-type functions as flexible growth
curves
R.C. YANG, A. KOZAK, and J.H.G. SMITH 424
- Lanares, R.**
Induction florale sur pousses d'août chez le Douglas
(*Pseudotsuga menziesii*)
MARC BONNET-MASIMBERT et RENÉ LANARES 247
- Larsen, M.J.**
N₂ fixation associated with wood decayed by some common
fungi in western Montana
MICHAEL J. LARSEN, MARTIN F. JURGENSEN, and
ALAN E. HARVEY 341
- Larson, M.M.**
Effects of late-season defoliation and dark periods on initial
growth of planted northern red oak seedlings
M.M. LARSON 67
- Leaphart, C.D.**
A system using aerial photography to estimate area of root
disease centers in forests
RALPH E. WILLIAMS and C.D. LEAPHART 214
- Lester, D.T.**
Illustration of nursery stock distribution by computer
graphics
D.T. LESTER and G.L. MARTIN 261
- Leuschner, W.A.**
Allocating inventory resources for multiple-use planning
HAROLD E. BURKHART, R. DEAN STUCK,
WILLIAM A. LEUSCHNER, and
MARION R. REYNOLDS 100
- Lheureux, C.**
Réactions 'organographiques' du pin laricio sous l'action de
l'acide cacodylique
CHRISTIAN LHEUREUX et PIERRE ANDRE 111
- Little, C.H.A.**
Effect of fertilization of balsam fir trees on spruce budworm
nutrition and development
G.G. SHAW, C.H.A. LITTLE, and D.J. DURZAN 364
- Liu, C.J.**
Southern pine stem form defined through principal compo-
nent analysis
C.J. LIU and T.D. KEISTER 188
- Lotan, J.E.**
Variation in lodgepole pine (*Pinus contorta* var. *latifolia*):
greenhouse response of wind pollinated families from five
populations to day length and temperature-soil
DAVID A. PERRY and JAMES E. LOTAN 81
- Mahendrappa, M.K.**
Changes in the organic layers under a black spruce stand
fertilized with urea and triple superphosphate
M.K. MAHENDRAPPA 237
- Malcolm, D.C.**
Dry matter accumulation by *Picea sitchensis* seedlings
during winter
IAN K. BRADBURY and D.C. MALCOLM 207
- Malia, M.E.**
Electrical resistance, physical characteristics, and cation
concentrations in xylem of sugar maple infected with
Verticillium dahliae
MARGARET E. MALIA and TERRY A. TATTAR 322
- Martin, G.L.**
Illustration of nursery stock distribution by computer
graphics
D.T. LESTER and G.L. MARTIN 261
- McCaughy, J.H.**
Estimation of net radiation for a coniferous forest, and the
effects of logging on net radiation and the reflection
coefficient
J.H. McCAUGHEY 450
- McCaughy, J.H.**
Energy balance and evapotranspiration estimates for a
mature coniferous forest
J.H. McCAUGHEY 456
- McClenahan, J.R.**
Community changes in a deciduous forest exposed to air
pollution
JAMES R. McCLENAHAN 432
- Melillo, J.M.**
Predicting the effects of different harvesting regimes on
forest floor dynamics in northern hardwoods
JOHN D. ABER, DANIEL B. BOTKIN, and
JERRY M. MELILLO 306
- Methven, I.R.**
Discussion: Two recent articles on fire ecology
C.E. VAN WAGNER and I.R. METHVEN 491
- Moore, K.E.**
Barrier-zone formation in wounded stems of sweetgum
KATHLEEN E. MOORE 389
- Morgenstern, E.K.**
Range-wide genetic variation of black spruce
E.K. MORGENSTERN 463

- Morrison, D.J.**
Stump colonization and spread of *Fomes annosus* 5 years after thinning
D.J. MORRISON and A.L.S. JOHNSON 177
- Mullin, R.E.**
Effects of nursery seedbed density and topdressing fertilization on survival and growth of 3 + 0 red pine
R.E. MULLIN and L. BOWDERY 30
- Myren, D.T.**
Root-rotting fungi associated with mortality of conifer saplings in northern Ontario
ROY D. WHITNEY and DONALD T. MYREN 17
- Myren, D.T.**
Comparison of malt agar with malt agar plus ortho-phenylphenol for isolating *Armillaria mellea* and other fungi from conifer roots
R.D. WHITNEY, D.T. MYREN, and W.E. BRITNELL 348
- Nemetz, P.N.**
The impact of composite sampling and other data aggregation procedures on pollution detection in the pulp and paper industry
HERBERT D. DRECHSLER and PETER N. NEMETZ 328
- Newstead, R.G.**
Location-allocation models for one-strike initial attack of forest fires by airtankers
M.J. HODGSON and R.G. NEWSTEAD 145
- Owston, P.W.**
Container and root treatments affect growth and root form of planted ponderosa pine
PEYTON W. OWSTON and K.W. SEIDEL 232
- Parker, M.L.**
Comparison of annual ring density profiles in hardwoods and softwoods by X-ray densitometry
D.J. COWN and M.L. PARKER 442
- Patton, R.F.**
Reduced growth, cull, and mortality of jack pine associated with sweetfern rust cankers
HENRY L. GROSS, ROBERT F. PATTON, and ALAN R. EK 47
- Perala, D.A.**
Biomass and nutrient distribution in aspen, pine, and spruce stands on the same soil type in Minnesota
DAVID H. ALBAN, DONALD A. PERALA, and BRYCE E. SCHLAEGEL 290
- Percy, K.E.**
The epicuticular waxes of *Pinus strobus* subjected to air pollutants
K.E. PERCY and R.T. RIDING 474
- Perry, D.A.**
Variation in lodgepole pine (*Pinus contorta* var. *latifolia*): greenhouse response of wind pollinated families from five populations to day length and temperature-soil
DAVID A. PERRY and JAMES E. LOTAN 81
- Pienc, H.**
Weight loss of litter and cellulose bags in a thinned white spruce forest in interior Alaska
HARALD PIENE and KEITH VAN CLEVE 42
- Pienc, H.**
Effects of increased spacing on carbon mineralization rates and temperature in a stand of young balsam fir
HARALD PIENE 398
- Pomber, L.**
Phytotoxicity of fenitrothion to white pine seeds and seedlings
PEARL WEINBERGER, L. POMBER, and R. PRASAD 155
- Pomber, L.**
Some toxic effects of fenitrothion on seed germination and early seedling growth of jack pine, spruce, and birches
PEARL WEINBERGER, L. POMBER, and R. PRASAD 243
- Prasad, R.**
Phytotoxicity of fenitrothion to white pine seeds and seedlings
PEARL WEINBERGER, L. POMBER, and R. PRASAD 155
- Prasad, R.**
Some toxic effects of fenitrothion on seed germination and early seedling growth of jack pine, spruce, and birches
PEARL WEINBERGER, L. POMBER, and R. PRASAD 243
- Rencz, A.N.**
Biomass distribution in a subarctic *Picea mariana* - *Cladonia alpestris* woodland
ANDREW N. RENCZ and ALLAN N.D. AUCLAIR 168
- Reynolds, M.R.**
Allocating inventory resources for multiple-use planning
HAROLD E. BURKHART, R. DEAN STUCK, WILLIAM A. LEUSCHNER, and MARION R. REYNOLDS 100
- Riding, R.T.**
The epicuticular waxes of *Pinus strobus* subjected to air pollutants
K.E. PERCY and R.T. RIDING 474
- Rohde, R.A.**
Incidence and condition of vesicular-arbuscular mycorrhizae infections in the roots of sugar maple in relation to maple decline
ROBERTA A. SPITKO, TERRY A. TATTAR, and RICHARD A. ROHDE 375
- Rudis, V.A.**
Within-stand seedling dispersal for isolated *Pinus strobus* within hardwood stands
V.A. RUDIS, A.R. EK, and J.W. BALSIGER 10

- Safford, L.O.**
Effects of soil-applied potassium on cation distribution around wounds in red maple
ROBERT O. BLANCHARD, DESMOND SMITH, ALEX L. SHIGO, and L.O. SAFFORD 228
- Sandstedt, R.**
Short-term temperature variation in needles of *Pinus silvestris* L.
LARS CHRISTERSSON and ROLAND SANDSTEDT 480
- Schlaegel, B.E.**
Biomass and nutrient distribution in aspen, pine, and spruce stands on the same soil type in Minnesota
DAVID H. ALBAN, DONALD A. PERALA, and BRYCE E. SCHLAEGEL 290
- Schlentner, R.**
Biomass distribution and crown characteristics in two Alaskan *Picea mariana* ecosystems
RICHARD J. BARNEY, KEITH VAN CLEVE, and ROBERT SCHLENTNER 36
- Seidel, K.W.**
Container and root treatments affect growth and root form of planted ponderosa pine
PEYTON W. OWSTON and K.W. SEIDEL 232
- Shaw, C.G.**
A modified technique for the determination of fungal mass in decayed wood
S. GURUSIDDAIAH, ROBERT A. BLANCHETTE, and C. GARDNER SHAW 486
- Shaw, G.G.**
Effect of fertilization of balsam fir trees on spruce budworm nutrition and development
G.G. SHAW, C.H.A. LITTLE, and D.J. DURZAN 364
- Shigo, A.L.**
Discolouration and decay associated with paraformaldehyde-treated tapholes in sugar maple
RUSSELL S. WALTERS and ALEX L. SHIGO 54
- Shigo, A.L.**
Effects of soil-applied potassium on cation distribution around wounds in red maple
ROBERT O. BLANCHARD, DESMOND SMITH, ALEX L. SHIGO, and L.O. SAFFORD 228
- Smirnov, W.A.**
An assay of sequential application of Fenitrothion and *Bacillus thuringiensis* for an integrated control of the spruce budworm
W.A. SMIRNOFF and Y.J. HARDY 300
- Smith, D.**
Effects of soil-applied potassium on cation distribution around wounds in red maple
ROBERT O. BLANCHARD, DESMOND SMITH, ALEX L. SHIGO, and L.O. SAFFORD 228
- Smith, J.H.G.**
The potential of Weibull-type functions as flexible growth curves
R.C. YANG, A. KOZAK, and J.H.G. SMITH 424
- Spitko, R.A.**
Incidence and condition of vesicular-arbuscular mycorrhizae infections in the roots of sugar maple in relation to maple decline
ROBERTA A. SPITKO, TERRY A. TATTAR, and RICHARD A. ROHDE 375
- Spomer, G.G.**
Comparison of water potentials in bole and needle tissues of lodgepole pine
GEORGE G. SPOMER and KAREL J. STOSZEK 439
- Stauffer, H.B.**
Aggregating points to fit Pielou's index of nonrandomness
HOWARD B. STAUFFER 355
- Stoszek, K.J.**
Comparisons of water potentials in bole and needle tissues of lodgepole pine
GEORGE G. SPOMER and KAREL J. STOSZEK 439
- Stuck, R.D.**
Allocating inventory resources for multiple-use planning
HAROLD E. BURKHART, R. DEAN STUCK, WILLIAM A. LEUSCHNER, and MARION R. REYNOLDS 100
- Swanson, R.H.**
Snow accumulation and melt in small forest openings in Alberta
D.L. GOLDING and R.H. SWANSON 380
- Sylvia, D.M.**
Electrical resistance properties of tree tissues in cankers incited by *Endothia parasitica* and *Nectria galligena*
DAVID M. SYLVIA and TERRY A. TATTAR 162
- Tattar, T.A.**
Electrical resistance properties of tree tissues in cankers incited by *Endothia parasitica* and *Nectria galligena*
DAVID M. SYLVIA and TERRY A. TATTAR 162
- Tattar, T.A.**
Electrical resistance, physical characteristics, and cation concentrations in xylem of sugar maple infected with *Verticillium dahliae*
MARGARET E. MALIA and TERRY A. TATTAR 322
- Tattar, T.A.**
Incidence and condition of vesicular-arbuscular mycorrhizae infections in the roots of sugar maple in relation to maple decline
ROBERTA A. SPITKO, TERRY A. TATTAR, and RICHARD A. ROHDE 375

- Tauer, C.G.**
Sweet fern rust resistance in jack pine seedlings: geographic variation
CHARLES G. TAUER 416
- Thompson, R.G.**
Electrical resistance measurements of water potential in avocado and white spruce
M.A. DIXON, R.G. THOMPSON, and D.S. FENSOM 73
- Van Cleve, K.**
Biomass distribution and crown characteristics in two Alaskan *Picea mariana* ecosystems
RICHARD J. BARNEY, KEITH VAN CLEVE, and ROBERT SCHLENTNER 36
- Van Cleve, K.**
Weight loss of litter and cellulose bags in a thinned white spruce forest in interior Alaska
HARALD PIENE and KEITH VAN CLEVE 42
- Van Wagner, C.E.**
Age-class distribution and the forest fire cycle
C.E. VAN WAGNER 220
- Van Wagner, C.E.**
Discussion: Two recent articles on fire ecology
C.E. VAN WAGNER and I.R. METHVEN 491
- Walters, R.S.**
Discolouration and decay associated with paraformaldehyde-treated tapholes in sugar maple
RUSSELL S. WALTERS and ALEX L. SHIGO 54
- Weinberger, P.**
Phytotoxicity of fenitrothion to white pine seeds and seedlings
PEARL WEINBERGER, L. POMBER, and R. PRASAD 155
- Weinberger, P.**
Some toxic effects of fenitrothion on seed germination and early seedling growth of jack pine, spruce, and birches
PEARL WEINBERGER, L. POMBER, and R. PRASAD 243
- Whitbread, V.**
Variation of fibre length within trees of *Fraxinus excelsior*
M.P. DENNE and V. WHITBREAD 253
- Whitney, R.D.**
Root-rotting fungi associated with mortality of conifer saplings in northern Ontario
ROY D. WHITNEY and DONALD T. MYREN 17
- Whitney, R.D.**
Comparison of malt agar with malt agar plus ortho-phenylphenol for isolating *Armillaria mellea* and other fungi from conifer roots
R.D. WHITNEY, D.T. MYREN, and W.E. BRITNELL 348
- Williams, R.E.**
A system using aerial photography to estimate area of root disease centers in forests
RALPH E. WILLIAMS and C.D. LEAPHART 214
- Woods, R.A.**
Allelopathic effects of goldenrod and aster on young sugar maple
R.F. FISHER, R.A. WOODS, and M.R. GLAVICIC 1
- Yang, R.C.**
The potential of Weibull-type functions as flexible growth curves
R.C. YANG, A. KOZAK, and J.H.G. SMITH 424
- Zasada, J.C.**
Rooting potential of Alaskan willow cuttings
ROSEANN DENSMORE and JOHN C. ZASADA 477
- Ziemer, R.R.**
An apparatus to measure the crosscut shearing strength of roots
ROBERT R. ZIEMER 142



Subject Index/Index des matières

This is a rotated term index. The terms are arranged linearly, primary terms first, followed by secondary terms after the semicolon. Each primary term is used once to head an entry. Secondary terms are informative but not sufficiently specific to head entries. In an entry, a few terms by themselves may be ambiguous, but a reading of all the terms should convey the content of the paper. The index terms are followed by the volume number, inclusive page numbers, and author's names, in that order.

Il s'agit d'un index de termes permutés, présentés de façon linéaire: les termes principaux sont suivis, après le point-virgule, des termes secondaires. Chaque terme principal figure une fois au début d'une notice. Les termes secondaires sont utiles, mais trop peu précis pour servir de termes principaux. Il peut arriver que quelques termes d'une notice, pris isolément, soient obscurs, mais l'ensemble des termes doit préciser le contenu de l'article. Les termes de l'index sont suivis du numéro du volume, de la pagination complète et du nom de l'auteur ou des auteurs, dans cet ordre.

- Abies balsamea*, *Alces alces*, moose, browse, regeneration; Quebec, *Acer spicatum*, *Corylus cornuta*. **8**, 407–415 (Bédard et al.)
- , *Armillaria mellea*, *Scytinostroma galactinum*, *Coniophora puteana*, *Pinus banksiana*, *Pinus resinosa*, root rotting; conifer saplings, northern Ontario. **8**, 17–22 (Whitney and Myren)
- , fertilization, budworm, *Choristoneura fumiferana*; New Brunswick, budworm nutrition. **8**, 364–374 (Shaw et al.)
- , forest types, *Picea mariana*, *Betula papyrifera*; Newfoundland, ribbed moraines. **8**, 116–120 (Delaney and Cahill)
- , spacing, mineralization, organic layers, temperature; Nova Scotia. **8**, 398–406 (Piene)
- , spruce budworm, *Choristoneura fumiferana*, defoliation, *Bacillus thuringiensis*, fenitrothion; Quebec, sprayed by helicopter. **8**, 300–305 (Smirnov and Hardy)
- Abies lasiocarpa*, *Picea glauca*, roots, nutrient losses; British Columbia, management, logging, fine-root biomass, mineral elements. **8**, 265–279 (Kimmins and Hawkes)
- Acer rubrum*, cation distribution, wounds; Maine, U.S.A., soil-applied potassium. **8**, 228–231 (Blanchard et al.)
- , electrical resistance, phloem, Shigometer; field, Maine. **8**, 90–93 (Carter and Blanchard)
- Acer saccharum*, allelopathy; field, greenhouse, laboratory, fertilization, plantations. **8**, 1–9 (Fisher et al.)
- , electrical resistance, *Verticillium dahliae*, cation concentration, decay; Massachusetts, U.S.A. **8**, 322–327 (Malia and Tattar)
- , maple syrup, wound reaction, decay; northeastern United States, succession of microorganisms, paraformaldehyde. **8**, 54–60 (Walters and Shigo)
- , mycorrhizae; Massachusetts, maple decline. **8**, 375–379 (Spitko et al.)
- , pollution; Ohio River Valley, U.S.A., airborne, seven stands, richness and diversity. **8**, 432–438 (McClenahan)
- age-class, fire; fire cycle, fire history. **8**, 220–227 (Van Wagner)
- aggregation, Pielou's index; nonrandom spatial patterns. **8**, 355–363 (Stauffer)
- Alces alces*, *Abies balsamea*, moose, browse, regeneration; Quebec, *Acer spicatum*, *Corylus cornuta*. **8**, 407–415 (Bédard et al.)
- allelopathy, *Acer saccharum*; field, greenhouse, laboratory, fertilization, plantations. **8**, 1–9 (Fisher et al.)
- annual ring, X-ray densitometry; radial and transverse sections. **8**, 442–449 (Cown and Parker)
- apical dominance, bud, morphogenesis, *Picea sitchensis*, plastochrone, primordia; Great Britain, cell dimensions. **8**, 121–128 (Baxter and Cannell)
- Armillaria mellea*, infection centers, *Fomes annosus*, *Pseudotsuga menziesii*, *Tsuga heterophylla*; stumps, competition. **8**, 177–180 (Morrison and Johnson)
- , isolation; selective media. **8**, 348–350 (Whitney et al.)
- , *Scytinostroma galactinum*, *Coniophora puteana*, *Pinus banksiana*, *Pinus resinosa*, *Abies balsamea*, root rotting; conifer saplings, northern Ontario. **8**, 17–22 (Whitney and Myren)
- Bacillus thuringiensis*, spruce budworm, *Choristoneura fumiferana*, *Abies balsamea*, defoliation, fenitrothion; Quebec, sprayed by helicopter. **8**, 300–305 (Smirnov and Hardy)

- barrier zone**, traumatic tissue, wounds, *Liquidambar styraciflua*, decay, discolouration, compartmentalization; histochemistry, North Carolina U.S.A. **8**, 389–397 (Moore)
- Betula**, electrical resistance, cankers, *Endothia parasitica*, *Nectria galligena*, Shigometer, *Castanea*; Massachusetts. **8**, 162–167 (Sylvia and Tattar)
- , fenitrothion, germination, *Pinus banksiana*, *Picea glauca*; toxicity. **8**, 243–246 (Weinberger et al.)
- Betula papyrifera**, forest types, *Picea mariana*, *Abies balsamea*; Newfoundland, ribbed moraines. **8**, 116–120 (Delancy and Cahill)
- biomass**, crown, *Picea mariana*; Alaska, foliage, cones, dead and live branches, bark and stem wood, prediction equations. **8**, 36–41 (Barney et al.)
- , *Picea mariana*, forest type; subarctic Quebec, lichen woodlands, trees, shrubs, ground layer. **8**, 168–176 (Rencz and Auclair)
- , whole-tree harvesting, nutrient depletion, *Pinus resinosa*, *Pinus banksiana*, *Pinus glauca*, *Populus tremuloides*, *Populus grandidentata*; Minnesota, U.S.A., soils. **8**, 290–299 (Alban et al.)
- browse**, *Alces alces*, *Abies balsamea*, moose, regeneration; Quebec, *Acer spicatum*, *Corylus cornuta*. **8**, 407–415 (Bédard et al.)
- bud**, apical dominance, morphogenesis, *Picea sitchensis*, plastochrone, primordia; Great Britain, cell dimensions. **8**, 121–128 (Baxter and Cannell)
- , *Larix decidua*, leader, morphogenesis, *Picea abies*, *Picea omorika*, *Picea sitchensis*, tree form, phyllotaxy; Great Britain, lateral buds, position mechanism. **8**, 129–137 (Cannell and Bowler)
- budworm**, fertilization, *Abies balsamea*, *Choristoneura fumiferana*; New Brunswick, budworm nutrition. **8**, 364–374 (Shaw et al.)
- cacodylic acid**, *Pinus nigra*, interfascicular buds; proliferating buds. **8**, 111–115 (Lheureux and Andre)
- cankers**, electrical resistance, *Endothia parasitica*, *Nectria galligena*, Shigometer, *Castanea*, *Betula*; Massachusetts. **8**, 162–167 (Sylvia and Tattar)
- Castanea**, electrical resistance, cankers, *Endothia parasitica*, *Nectria galligena*, Shigometer, *Betula*; Massachusetts. **8**, 162–167 (Sylvia and Tattar)
- cation concentration**, electrical resistance, *Acer saccharum*, *Verticillium dahliae*, decay; Massachusetts, U.S.A. **8**, 322–327 (Malia and Tattar)
- cation distribution**, wounds, *Acer rubrum*; Maine, U.S.A., soil-applied potassium. **8**, 228–231 (Blanchard et al.)
- Choristoneura fumiferana**, fertilization, budworm, *Abies balsamea*; New Brunswick, budworm nutrition. **8**, 364–374 (Shaw et al.)
- , spruce budworm, *Abies balsamea*, defoliation, *Bacillus thuringiensis*, fenitrothion; Quebec, sprayed by helicopter. **8**, 300–305 (Smirnov and Hardy)
- clinal variation**, *Picea mariana*, provenance, seed sources; tested in Ontario, initiation and cessation of growth, photoperiod and temperature. **8**, 463–473 (Morgenstern)
- clonal variation**, *Populus*, rabbits; Michigan, U.S.A., feeding selectivity. **8**, 351–354 (Dickmann)
- compartmentalization**, traumatic tissue, barrier zone, wounds, *Liquidambar styraciflua*, decay, discolouration; histochemistry, North Carolina U.S.A. **8**, 389–397 (Moore)
- computer graphics**, nursery stock; spatial mapping. **8**, 261–263 (Lester and Martin)
- Coniophora puteana**, *Armillaria mellea*, *Scytinostroma galactinum*, *Pinus banksiana*, *Pinus resinosa*, *Abies balsamea*, root rotting; conifer saplings, northern Ontario. **8**, 17–22 (Whitney and Myren)
- container stock**, *Pinus contorta*, wind throw, root morphology; mechanical instability, planting methods. **8**, 483–486 (Burdett)
- containerized seedlings**, irradiation, *Picea mariana*; greenhouse, growth chamber. **8**, 316–321 (D'Aoust)
- , *Pinus ponderosa*, root form; field performance, 1.9-ℓ containers. **8**, 232–236 (Owston and Seidel)
- Cronartium comptoniae**, *Pinus banksiana*, disease resistance, natural variation, provenance; tested in Minnesota, U.S.A. **8**, 416–423 (Tauer)
- , sweetfern rust, *Pinus banksiana*; growth loss, cull, mortality, northern Ontario. **8**, 47–53 (Gross et al.)
- crown**, biomass, *Picea mariana*; Alaska, foliage, cones, dead and live branches, bark and stem wood, prediction equations. **8**, 36–41 (Barney et al.)
- cuttings**, *Salix*; Alaska, taiga, vegetative propagation, five species. **8**, 477–479 (Densmore and Zasada)
- , vegetative propagation, *Pinus elliotii*, girdle; Mississippi, root-promoting chemicals, seasonal variation. **8**, 14–16 (Hare)
- day length**, *Pinus contorta*, genecology, temperature; wind-pollinated families, seedlings, greenhouse. **8**, 81–89 (Perry and Lotan)
- decay**, *Acer saccharum*, maple syrup, wound reaction; northeastern United States, succession of microorganisms, paraformaldehyde. **8**, 54–60 (Walters and Shigo)
- , electrical resistance, *Acer saccharum*, *Verticillium dahliae*, cation concentration; Massachusetts, U.S.A. **8**, 322–327 (Malia and Tattar)

- , fungal mass, nitrogen-fixing bacteria, forest residues; Washington, U.S.A., glucosamine from amino acids. **8**, 486–490 (Gurusiddaiah et al.)
- , traumatic tissue, barrier zone, wounds, *Liquidambar styraciflua*, discolouration, compartmentalization; histochemistry, North Carolina U.S.A. **8**, 389–397 (Moore)
- decay fungi**, nitrogen fixation; Montana. **8**, 341–345 (Larsen et al.)
- decayed wood**, Kraft pulping, *Populus tremuloides*; **8**, 181–187 (Hunt et al.)
- decomposition**, *Picea glauca*, organic matter, humus; Alaska, cellulose bags, thinning. **8**, 42–46 (Piene and Van Cleve)
- defoliation**, *Quercus rubra*, root regeneration; seedlings, spring shoot growth, dark periods, carbohydrates. **8**, 67–72 (Larson)
- , spruce budworm, *Choristoneura fumiferana*, *Abies balsamea*, *Bacillus thuringiensis*, fenitrothion; Quebec, sprayed by helicopter. **8**, 300–305 (Smirnov and Hardy)
- density**, fertilization, *Pinus resinosa*; seedbeds, quality of planting stock. **8**, 30–35 (Mullin and Bowdery)
- discolouration**, traumatic tissue, barrier zone, wounds, *Liquidambar styraciflua*, decay, compartmentalization; histochemistry, North Carolina U.S.A. **8**, 389–397 (Moore)
- disease resistance**, *Cronartium comptoniae*, *Pinus banksiana*, natural variation, provenance; tested in Minnesota, U.S.A. **8**, 416–423 (Tauer)
- dormancy**, dry matter accumulation, *Picea sitchensis*; Great Britain, winter activity, seedlings. **8**, 207–213 (Bradbury and Malcolm)
- drought**, flower induction, lammas shoots, *Pseudotsuga menziesii*; 6- and 9-year grafts, France, seed cones. **8**, 247–252 (Bonnet-Masimbert and Lanares)
- dry matter accumulation**, dormancy, *Picea sitchensis*; Great Britain, winter activity, seedlings. **8**, 207–213 (Bradbury and Malcolm)
- electrical resistance**, *Acer saccharum*, *Verticillium dahliae*, cation concentration, decay; Massachusetts, U.S.A. **8**, 322–327 (Malia and Tattar)
- , cankers, *Endothia parasitica*, *Nectria galligena*, Shigometer, *Castanea*, *Betula*; Massachusetts. **8**, 162–167 (Sylvia and Tattar)
- , *Persea americana*, *Picea glauca*, water potential; laboratory, New Brunswick, pressure bomb, psychrometer. **8**, 73–80 (Dixon et al.)
- , phloem, Shigometer, *Acer rubrum*; field, Maine. **8**, 90–93 (Carter and Blanchard)
- emergence**, temperature, flushing, heatsum, *Pseudotsuga menziesii*; modeling, nursery, growth chambers. **8**, 23–29 (Bloomberg)
- Endothia parasitica***, electrical resistance, cankers, *Nectria galligena*, Shigometer, *Castanea*, *Betula*; Massachusetts. **8**, 162–167 (Sylvia and Tattar)
- energy balance**, evapotranspiration; Quebec, stand of *Abies balsamea*. **8**, 456–462 (McCaughey)
- evapotranspiration**, energy balance; Quebec, stand of *Abies balsamea*. **8**, 456–462 (McCaughey)
- fenitrothion**, germination, *Pinus banksiana*, *Picea glauca*, *Betula*; toxicity. **8**, 243–246 (Weinberger et al.)
- , seeds, *Pinus strobus*, germination; laboratory study, histochemistry, toxicology. **8**, 155–161 (Weinberger et al.)
- , spruce budworm, *Choristoneura fumiferana*, *Abies balsamea*, defoliation, *Bacillus thuringiensis*; Quebec, sprayed by helicopter. **8**, 300–305 (Smirnov and Hardy)
- fertilization**, budworm, *Abies balsamea*, *Choristoneura fumiferana*; New Brunswick, budworm nutrition. **8**, 364–374 (Shaw et al.)
- , density, *Pinus resinosa*; seedbeds, quality of planting stock. **8**, 30–35 (Mullin and Bowdery)
- , organic layers, *Picea mariana*; urea, superphosphate, five seasons, New Brunswick. **8**, 237–242 (Mahendrappa)
- fiber angle**, spiral grain, heritability, radioisotope, *Pinus nigra*, *Pinus pinaster*; genetic prediction, juvenile–mature correlation, France. **8**, 280–289 (Arbez et al.)
- fibre length**, *Fraxinus excelsior*, internodal analysis; growth layer sequences. **8**, 253–260 (Denne and Whitbread)
- fire**; Alberta, modeling, location allocation, airtankers. **8**, 145–154 (Hodgson and Newstead)
- , age-class; fire cycle, fire history. **8**, 220–227 (Van Wagner)
- fire ecology**, fire intensity; discussion paper. **8**, 491–492 (Van Wagner and Methven)
- fire intensity**, fire ecology; discussion paper. **8**, 491–492 (Van Wagner and Methven)
- flower induction**, lammas shoots, drought, *Pseudotsuga menziesii*; 6- and 9-year grafts, France, seed cones. **8**, 247–252 (Bonnet-Masimbert and Lanares)
- flushing**, emergence, temperature, heatsum, *Pseudotsuga menziesii*; modeling, nursery, growth chambers. **8**, 23–29 (Bloomberg)
- Fomes annosus***, *Armillaria mellea*, infection centers, *Pseudotsuga menziesii*, *Tsuga heterophylla*; stumps, competition. **8**, 177–180 (Morrison and Johnson)
- forest openings**, snow accumulation, meteorology; Alberta, ablation. **8**, 380–388 (Golding and Swanson)
- forest policies**, sustained yield; British Columbia, forest industry communities, income, employment. **8**, 61–66 (Byron)

- forest residues**, fungal mass, decay, nitrogen-fixing bacteria; Washington, U.S.A., glucosamine from amino acids. **8**, 486–490 (Gurusiddaiah et al.)
- forest type**, biomass, *Picea mariana*; subarctic Quebec, lichen woodlands, trees, shrubs, ground layer. **8**, 168–176 (Rencz and Auclair)
- forest types**, *Picea mariana*, *Betula papyrifera*, *Abies balsamea*; Newfoundland, ribbed moraines. **8**, 116–120 (Delaney and Cahill)
- Fraxinus excelsior*, fibre length, internodal analysis; growth layer sequences. **8**, 253–260 (Denne and Whitbread)
- frost damage**, *Juglans nigra*, irrigation; Indiana, U.S.A. **8**, 346–347 (Beineke)
- fungal mass**, decay, nitrogen-fixing bacteria, forest residues; Washington, U.S.A., glucosamine from amino acids. **8**, 486–490 (Gurusiddaiah et al.)
- genecology**, *Pinus contorta*, day length, temperature; wind-pollinated families, seedlings, greenhouse. **8**, 81–89 (Perry and Lotan)
- germination**, fenitrothion, *Pinus banksiana*, *Picea glauca*, *Betula*; toxicity. **8**, 243–246 (Weinberger et al.)
- , seeds, fenitrothion, *Pinus strobus*; laboratory study, histochemistry, toxicology. **8**, 155–161 (Weinberger et al.)
- girdle**, vegetative propagation, *Pinus elliotii*, cuttings; Mississippi, root-promoting chemicals, seasonal variation. **8**, 14–16 (Hare)
- growth curves**, Weibull function; height–age, volume–age. **8**, 424–431 (Yang et al.)
- heatsum**, emergence, temperature, flushing, *Pseudotsuga menziesii*; modeling, nursery, growth chambers. **8**, 23–29 (Bloomberg)
- heritability**, spiral grain, fiber angle, radioisotope, *Pinus nigra*, *Pinus pinaster*; genetic prediction, juvenile–mature correlation, France. **8**, 280–289 (Arbez et al.)
- humus**, *Picea glauca*, organic matter, decomposition; Alaska, cellulose bags, thinning. **8**, 42–46 (Piene and Van Cleave)
- , *Tsuga heterophylla*, *Picea sitchensis*, organic matter; weight loss, fallen logs, Oregon, U.S.A. **8**, 198–206 (Grier)
- industry**, sampling, pollution; British Columbia, grab and composite sampling, effluent. **8**, 328–340 (Drechsler and Nemetz)
- infection centers**, *Armillaria mellea*, *Fomes annosus*, *Pseudotsuga menziesii*, *Tsuga heterophylla*; stumps, competition. **8**, 177–180 (Morrison and Johnson)
- infrared photography**, *Poria weirii*, remote sensing; habitat types, colour photography, Idaho, U.S.A., spatial area. **8**, 214–219 (Williams and Leaphart)
- interfascicular buds**, *Pinus nigra*, cadoric acid; proliferating buds. **8**, 111–115 (Lheureux and Andre)
- internodal analysis**, fibre length, *Fraxinus excelsior*; growth layer sequences. **8**, 253–260 (Denne and Whitbread)
- inventory**, multiple use; decisions, sampling error, Virginia, modeling. **8**, 100–110 (Burkhart et al.)
- irradiance**, *Populus euramerica*; rooted cuttings, infrared gas analyzer, three clones, growth, photosynthesis. **8**, 94–99 (Faschun)
- irradiation**, *Picea mariana*, containerized seedlings; greenhouse, growth chamber. **8**, 316–321 (D'Aoust)
- irrigation**, *Juglans nigra*, frost damage; Indiana, U.S.A. **8**, 346–347 (Beineke)
- isolation**, *Armillaria mellea*; selective media. **8**, 348–350 (Whitney et al.)
- Juglans nigra*, frost damage, irrigation; Indiana, U.S.A. **8**, 346–347 (Beineke)
- Kraft pulping**, *Populus tremuloides*, decayed wood; **8**, 181–187 (Hunt et al.)
- lammas shoots**, flower induction, drought, *Pseudotsuga menziesii*; 6- and 9-year grafts, France, seed cones. **8**, 247–252 (Bonnet-Masimbert and Lanares)
- Larix**, phyllotaxy, *Picea*; computer simulation, primordium, lateral buds, Fibonacci number. **8**, 138–141 (Cannell and Bowler)
- Larix decidua**, bud, leader, morphogenesis, *Picea abies*, *Picea omorika*, *Picea sitchensis*, tree form, phyllotaxy; Great Britain, lateral buds, position mechanism. **8**, 129–137 (Cannell and Bowler)
- leader**, bud, *Larix decidua*, morphogenesis, *Picea abies*, *Picea omorika*, *Picea sitchensis*, tree form, phyllotaxy; Great Britain, lateral buds, position mechanism. **8**, 129–137 (Cannell and Bowler)
- Liquidambar styraciflua**, traumatic tissue, barrier zone, wounds, decay, discolouration, compartmentalization; histochemistry, North Carolina U.S.A. **8**, 389–397 (Moore)
- maple syrup**, *Acer saccharum*, wound reaction, decay; northeastern United States, succession of microorganisms, paraformaldehyde. **8**, 54–60 (Walters and Shigo)

- meteorology**, snow accumulation, forest openings; Alberta, ablation. **8**, 380–388 (Golding and Swanson)
- mineralization**, spacing, *Abies balsamea*, organic layers, temperature; Nova Scotia. **8**, 398–406 (Piene)
- moisture stress**, *Pinus contorta*, osmotic potentials, water potential; Idaho, U.S.A., needles and stem tissues. **8**, 439–441 (Spomer and Stoszek)
- moose**, *Alces alces*, *Abies balsamea*, browse, regeneration; Quebec, *Acer spicatum*, *Corylus cornuta*. **8**, 407–415 (Bédard et al.)
- morphogenesis**, apical dominance, bud, *Picea sitchensis*, plastochrone, primordia; Great Britain, cell dimensions. **8**, 121–128 (Baxter and Cannell)
- , bud, *Larix decidua*, leader, *Picea abies*, *Picea omorika*, *Picea sitchensis*, tree form, phyllotaxy; Great Britain, lateral buds, position mechanism. **8**, 129–137 (Cannell and Bowler)
- multiple use**, inventory; decisions, sampling error, Virginia, modeling. **8**, 100–110 (Burkhart et al.)
- mycorrhizae**, *Acer saccharum*; Massachusetts, maple decline. **8**, 375–379 (Spitko et al.)
- natural variation**, *Cronartium comptoniae*, *Pinus banksiana*, disease resistance, provenance; tested in Minnesota, U.S.A. **8**, 416–423 (Tauer)
- Nectria galligena*, electrical resistance, cankers, *Endothia parasitica*, Shigometer, *Castanea*, *Betula*; Massachusetts. **8**, 162–167 (Sylvia and Tattar)
- needles**, temperature, *Pinus silvestris*; Sweden, ultraminiature thermocouple. **8**, 480–482 (Christersson and Sandstedt)
- nitrogen availability**, whole-tree harvesting, organic layers; modeling, forest floor biomass. **8**, 306–315 (Aber et al.)
- nitrogen fixation**, decay fungi; Montana. **8**, 341–345 (Larsen et al.)
- nitrogen-fixing bacteria**, fungal mass, decay, forest residues; Washington, U.S.A., glucosamine from amino acids. **8**, 486–490 (Gurusiddaiah et al.)
- nursery stock**, computer graphics; spatial mapping. **8**, 261–263 (Lester and Martin)
- nutrient depletion**, whole-tree harvesting, *Pinus resinosa*, *Pinus banksiana*, *Pinus glauca*, *Populus tremuloides*, *Populus grandidentata*, biomass; Minnesota, U.S.A., soils. **8**, 290–299 (Alban et al.)
- nutrient losses**, *Picea glauca*, *Abies lasiocarpa*, roots; British Columbia, management, logging, fine-root biomass, mineral elements. **8**, 265–279 (Kimmins and Hawkes)
- organic layers**, nitrogen availability, whole-tree harvesting; modeling, forest floor biomass. **8**, 306–315 (Aber et al.)
- , *Picea mariana*, fertilization; urea, superphosphate, five seasons, New Brunswick. **8**, 237–242 (Mahendrapa)
- , spacing, mineralization, *Abies balsamea*, temperature; Nova Scotia. **8**, 398–406 (Piene)
- organic matter**, *Picea glauca*, humus, decomposition; Alaska, cellulose bags, thinning. **8**, 42–46 (Piene and Van Cleve)
- , *Tsuga heterophylla*, *Picea sitchensis*, humus; weight loss, fallen logs, Oregon, U.S.A. **8**, 198–206 (Grier)
- osmotic potentials**, *Pinus contorta*, moisture stress, water potential; Idaho, U.S.A., needles and stem tissues. **8**, 439–441 (Spomer and Stoszek)
- Persea americana*, *Picea glauca*, electrical resistance, water potential; laboratory, New Brunswick, pressure bomb, psychrometer. **8**, 73–80 (Dixon et al.)
- phloem**, electrical resistance, Shigometer, *Acer rubrum*; field, Maine. **8**, 90–93 (Carter and Blanchard)
- phyllotaxy**, bud, *Larix decidua*, leader, morphogenesis, *Picea abies*, *Picea omorika*, *Picea sitchensis*, tree form; Great Britain, lateral buds, position mechanism. **8**, 129–137 (Cannell and Bowler)
- , *Picea*, *Larix*; computer simulation, primordium, lateral buds, Fibonacci number. **8**, 138–141 (Cannell and Bowler)
- Picea*, phyllotaxy, *Larix*; computer simulation, primordium, lateral buds, Fibonacci number. **8**, 138–141 (Cannell and Bowler)
- Picea abies*, bud, *Larix decidua*, leader, morphogenesis, *Picea omorika*, *Picea sitchensis*, tree form, phyllotaxy; Great Britain, lateral buds, position mechanism. **8**, 129–137 (Cannell and Bowler)
- Picea glauca*, *Abies lasiocarpa*, roots, nutrient losses; British Columbia, management, logging, fine-root biomass, mineral elements. **8**, 265–279 (Kimmins and Hawkes)
- , fenitrothion, germination, *Pinus banksiana*, *Betula*; toxicity. **8**, 243–246 (Weinberger et al.)
- , organic matter, humus, decomposition; Alaska, cellulose bags, thinning. **8**, 42–46 (Piene and Van Cleve)
- , *Persea americana*, electrical resistance, water potential; laboratory, New Brunswick, pressure bomb, psychrometer. **8**, 73–80 (Dixon et al.)
- Picea mariana*, biomass, crown; Alaska, foliage, cones, dead and live branches, bark and stem wood, prediction equations. **8**, 36–41 (Barney et al.)
- , biomass, forest type; subarctic Quebec, lichen woodlands, trees, shrubs, ground layer. **8**, 168–176 (Rencz and Auclair)
- , forest types, *Betula papyrifera*, *Abies balsamea*; Newfoundland, ribbed moraines. **8**, 116–120 (Delaney and Cahill)

- , irradiation, containerized seedlings; greenhouse, growth chamber. **8**, 316–321 (D'Aoust)
- , organic layers, fertilization; urea, superphosphate, five seasons, New Brunswick. **8**, 237–242 (Mahendrapa)
- , provenance, seed sources, clinal variation; tested in Ontario, initiation and cessation of growth, photoperiod and temperature. **8**, 463–473 (Morgenstern)
- Picea omorika*, bud, *Larix decidua*, leader, morphogenesis, *Picea abies*, *Picea sitchensis*, tree form, phyllotaxy; Great Britain, lateral buds, position mechanism. **8**, 129–137 (Cannell and Bowler)
- Picea sitchensis*, apical dominance, bud, morphogenesis, plastochrone, primordia; Great Britain, cell dimensions. **8**, 121–128 (Baxter and Cannell)
- , bud, *Larix decidua*, leader, morphogenesis, *Picea abies*, *Picea omorika*, tree form, phyllotaxy; Great Britain, lateral buds, position mechanism. **8**, 129–137 (Cannell and Bowler)
- , dormancy, dry matter accumulation; Great Britain, winter activity, seedlings. **8**, 207–213 (Bradbury and Malcolm)
- , *Tsuga heterophylla*, organic matter, humus; weight loss, fallen logs, Oregon, U.S.A. **8**, 198–206 (Grier)
- Pielou's index**, aggregation; nonrandom spatial patterns. **8**, 355–363 (Stauffer)
- Pinus*, principal component, stem form, taper; southeastern United States. **8**, 188–197 (Liu and Keister)
- Pinus banksiana*, *Armillaria mellea*, *Scytinostroma galactinum*, *Coniophora puteana*, *Pinus resinosa*, *Abies balsamea*, root rotting; conifer saplings, northern Ontario. **8**, 17–22 (Whitney and Myren)
- , *Cronartium comptoniae*, disease resistance, natural variation, provenance; tested in Minnesota, U.S.A. **8**, 416–423 (Tauer)
- , *Cronartium comptoniae*, sweetfern rust; growth loss, cull, mortality, northern Ontario. **8**, 47–53 (Gross et al.)
- , fenitrothion, germination, *Picea glauca*, *Betula*; toxicity. **8**, 243–246 (Weinberger et al.)
- , whole-tree harvesting, nutrient depletion, *Pinus resinosa*, *Pinus glauca*, *Populus tremuloides*, *Populus grandidentata*, biomass; Minnesota, U.S.A., soils. **8**, 290–299 (Alban et al.)
- Pinus contorta*, container stock, wind throw, root morphology; mechanical instability, planting methods. **8**, 483–486 (Burdett)
- , genecology, day length, temperature; wind-pollinated families, seedlings, greenhouse. **8**, 81–89 (Perry and Lotan)
- , moisture stress, osmotic potentials, water potential; Idaho, U.S.A., needles and stem tissues. **8**, 439–441 (Spomer and Stoszek)
- Pinus elliotii*, vegetative propagation, girdle, cuttings; Mississippi, root-promoting chemicals, seasonal variation. **8**, 14–16 (Hare)
- Pinus glauca*, whole-tree harvesting, nutrient depletion, *Pinus resinosa*, *Pinus banksiana*, *Populus tremuloides*, *Populus grandidentata*, biomass; Minnesota, U.S.A., soils. **8**, 290–299 (Alban et al.)
- Pinus nigra*, caddylic acid, interfascicular buds; proliferating buds. **8**, 111–115 (Lheureux and Andre)
- , spiral grain, fiber angle, heritability, radioisotope, *Pinus pinaster*; genetic prediction, juvenile–mature correlation, France. **8**, 280–289 (Arbez et al.)
- Pinus pinaster*, spiral grain, fiber angle, heritability, radioisotope, *Pinus nigra*; genetic prediction, juvenile–mature correlation, France. **8**, 280–289 (Arbez et al.)
- Pinus ponderosa*, containerized seedlings, root form; field performance, 1.9-l containers. **8**, 232–236 (Owston and Seidel)
- Pinus resinosa*, *Armillaria mellea*, *Scytinostroma galactinum*, *Coniophora puteana*, *Pinus banksiana*, *Abies balsamea*, root rotting; conifer saplings, northern Ontario. **8**, 17–22 (Whitney and Myren)
- , fertilization, density; seedbeds, quality of planting stock. **8**, 30–35 (Mullin and Bowdery)
- , whole-tree harvesting, nutrient depletion, *Pinus banksiana*, *Pinus glauca*, *Populus tremuloides*, *Populus grandidentata*, biomass; Minnesota, U.S.A., soils. **8**, 290–299 (Alban et al.)
- Pinus silvestris*, temperature, needles; Sweden, ultraminiature thermocouple. **8**, 480–482 (Christersson and Sandstedt)
- Pinus strobus*, pollutants, wax; New Brunswick, scanning electron microscopy. **8**, 474–477 (Percy and Riding)
- , seeds, fenitrothion, germination; laboratory study, histochemistry, toxicology. **8**, 155–161 (Weinberger et al.)
- , Weibull function, seed dispersal; hardwood stands, modeling, seedling spatial patterns. **8**, 10–13 (Rudis et al.)
- plastochrone**, apical dominance, bud, morphogenesis, *Picea sitchensis*, primordia; Great Britain, cell dimensions. **8**, 121–128 (Baxter and Cannell)
- pollutants**, *Pinus strobus*, wax; New Brunswick, scanning electron microscopy. **8**, 474–477 (Percy and Riding)
- pollution**, *Acer saccharum*; Ohio River Valley, U.S.A., airborne, seven stands, richness and diversity. **8**, 432–438 (McClenahan)
- , sampling, industry; British Columbia, grab and composite sampling, effluent. **8**, 328–340 (Drechsler and Nemetz)
- Populus*, rabbits, clonal variation; Michigan, U.S.A., feeding selectivity. **8**, 351–354 (Dickmann)
- Populus euramerica*, irradiance; rooted cuttings, infrared gas analyzer, three clones, growth, photosynthesis. **8**, 94–99 (Faschun)

- Populus grandidentata*, whole-tree harvesting, nutrient depletion, *Pinus resinosa*, *Pinus banksiana*, *Pinus glauca*, *Populus tremuloides*, biomass; Minnesota, U.S.A., soils. **8**, 290–299 (Alban et al.)
- Populus tremuloides*, Kraft pulping, decayed wood; **8**, 181–187 (Hunt et al.)
- , whole-tree harvesting, nutrient depletion, *Pinus resinosa*, *Pinus banksiana*, *Pinus glauca*, *Populus grandidentata*, biomass; Minnesota, U.S.A., soils. **8**, 290–299 (Alban et al.)
- Porcia weirii*, infrared photography, remote sensing; habitat types, colour photography, Idaho, U.S.A., spatial area. **8**, 214–219 (Williams and Leaphart)
- primordia*, apical dominance, bud, morphogenesis, *Picea sitchensis*, plastochrone; Great Britain, cell dimensions. **8**, 121–128 (Baxter and Cannell)
- principal component*, stem form, taper, *Pinus*; southeastern United States. **8**, 188–197 (Liu and Keister)
- provenance*, *Cronartium comptoniae*, *Pinus banksiana*, disease resistance, natural variation; tested in Minnesota, U.S.A. **8**, 416–423 (Tauer)
- , *Picea mariana*, seed sources, clinal variation; tested in Ontario, initiation and cessation of growth, photoperiod and temperature. **8**, 463–473 (Morgenstern)
- Pseudotsuga menziesii*, *Armillaria mellea*, infection centers, *Fomes annosus*, *Tsuga heterophylla*; stumps, competition. **8**, 177–180 (Morrison and Johnson)
- , emergence, temperature, flushing, heatsum; modeling, nursery, growth chambers. **8**, 23–29 (Bloomberg)
- , flower induction, lamas shoots, drought; 6- and 9-year grafts, France, seed cones. **8**, 247–252 (Bonnet-Masimbert and Lanares)
- Quercus rubra*, defoliation, root regeneration; seedlings, spring shoot growth, dark periods, carbohydrates. **8**, 67–72 (Larson)
- rabbits*, *Populus*, clonal variation; Michigan, U.S.A., feeding selectivity. **8**, 351–354 (Dickmann)
- radiation balance*, reflection coefficient; Quebec, stand of *Abies balsamea*, logged. **8**, 450–455 (McCaughy)
- radioisotope*, spiral grain, fiber angle, heritability, *Pinus nigra*, *Pinus pinaster*; genetic prediction, juvenile–mature correlation, France. **8**, 280–289 (Arbez et al.)
- reflection coefficient*, radiation balance; Quebec, stand of *Abies balsamea*, logged. **8**, 450–455 (McCaughy)
- regeneration*, *Alces alces*, *Abies balsamea*, moose, browse; Quebec, *Acer spicatum*, *Corylus cornuta*. **8**, 407–415 (Bédard et al.)
- remote sensing*, *Porcia weirii*, infrared photography; habitat types, colour photography, Idaho, U.S.A., spatial area. **8**, 214–219 (Williams and Leaphart)
- root*; landslides, shear and tensile strength, deterioration, California. **8**, 142–144 (Ziemer)
- root form*, containerized seedlings, *Pinus ponderosa*; field performance, 1.9-l containers. **8**, 232–236 (Owston and Seidel)
- root morphology*, container stock, *Pinus contorta*, wind throw; mechanical instability, planting methods. **8**, 483–486 (Burdett)
- root regeneration*, *Quercus rubra*, defoliation; seedlings, spring shoot growth, dark periods, carbohydrates. **8**, 67–72 (Larson)
- root rotting*, *Armillaria mellea*, *Scytinostroma galactinum*, *Coniophora puteana*, *Pinus banksiana*, *Pinus resinosa*, *Abies balsamea*; conifer saplings, northern Ontario. **8**, 17–22 (Whitney and Myren)
- roots*, *Picea glauca*, *Abies lasiocarpa*, nutrient losses; British Columbia, management, logging, fine-root biomass, mineral elements. **8**, 265–279 (Kimmins and Hawkes)
- Salix*, cuttings; Alaska, taiga, vegetative propagation, five species. **8**, 477–479 (Densmore and Zasada)
- sampling*, industry, pollution; British Columbia, grab and composite sampling, effluent. **8**, 328–340 (Drechsler and Nemetz)
- Scytinostroma galactinum*, *Armillaria mellea*, *Coniophora puteana*, *Pinus banksiana*, *Pinus resinosa*, *Abies balsamea*, root rotting; conifer saplings, northern Ontario. **8**, 17–22 (Whitney and Myren)
- seed dispersal*, Weibull function, *Pinus strobus*; hardwood stands, modeling, seedling spatial patterns. **8**, 10–13 (Rudis et al.)
- seed sources*, *Picea mariana*, provenance, clinal variation; tested in Ontario, initiation and cessation of growth, photoperiod and temperature. **8**, 463–473 (Morgenstern)
- seeds*, fenitrothion, *Pinus strobus*, germination; laboratory study, histochemistry, toxicology. **8**, 155–161 (Weinberger et al.)
- Shigometer*, electrical resistance, cankers, *Endothia parasitica*, *Nectria galligena*, *Castanea*, *Betula*; Massachusetts. **8**, 162–167 (Sylvia and Tattar)
- , electrical resistance, phloem, *Acer rubrum*; field, Maine. **8**, 90–93 (Carter and Blanchard)
- snow accumulation*, forest openings, meteorology; Alberta, ablation. **8**, 380–388 (Golding and Swanson)
- spacing*, mineralization, *Abies balsamea*, organic layers, temperature; Nova Scotia. **8**, 398–406 (Piene)

- spiral grain**, fiber angle, heritability, radioisotope, *Pinus nigra*, *Pinus pinaster*; genetic prediction, juvenile-mature correlation, France. **8**, 280-289 (Arbez et al.)
- spruce budworm**, *Choristoneura fumiferana*, *Abies balsamea*, defoliation, *Bacillus thuringiensis*, fenitrothion; Quebec, sprayed by helicopter. **8**, 300-305 (Smirnov and Hardy)
- stem form**, principal component, taper, *Pinus*; southeastern United States. **8**, 188-197 (Liu and Keister)
- sustained yield**, forest policies; British Columbia, forest industry communities, income, employment. **8**, 61-66 (Byron)
- sweetfern rust**, *Cronartium comptoniae*, *Pinus banksiana*; growth loss, cull, mortality, northern Ontario. **8**, 47-53 (Gross et al.)
- taper**, principal component, stem form, *Pinus*; southeastern United States. **8**, 188-197 (Liu and Keister)
- temperature**, emergence, flushing, heatsum, *Pseudotsuga menziesii*; modeling, nursery, growth chambers. **8**, 23-29 (Bloomberg)
- , needles, *Pinus silvestris*; Sweden, ultraminiature thermocouple. **8**, 480-482 (Christersson and Sandstedt)
- , *Pinus contorta*, geneecology, day length; wind-pollinated families, seedlings, greenhouse. **8**, 81-89 (Perry and Lotan)
- , spacing, mineralization, *Abies balsamea*, organic layers; Nova Scotia. **8**, 398-406 (Piene)
- traumatic tissue**, barrier zone, wounds, *Liquidambar styraciflua*, decay, discolouration, compartmentalization; histochemistry, North Carolina U.S.A. **8**, 389-397 (Moore)
- tree form**, bud, *Larix decidua*, leader, morphogenesis, *Picea abies*, *Picea omorika*, *Picea sitchensis*, phyllotaxy; Great Britain, lateral buds, position mechanism. **8**, 129-137 (Cannell and Bowler)
- Tsuga heterophylla**, *Armillaria mellea*, infection centers, *Fomes annosus*, *Pseudotsuga menziesii*; stumps, competition. **8**, 177-180 (Morrison and Johnson)
- , *Picea sitchensis*, organic matter, humus; weight loss, fallen logs, Oregon, U.S.A. **8**, 198-206 (Grier)
- vegetative propagation**, *Pinus elliotii*, girdle, cuttings; Mississippi, root-promoting chemicals, seasonal variation. **8**, 14-16 (Hare)
- Verticillium dahliae**, electrical resistance, *Acer saccharum*, cation concentration, decay; Massachusetts, U.S.A. **8**, 322-327 (Malia and Tattar)
- water potential**, *Persea americana*, *Picea glauca*, electrical resistance; laboratory, New Brunswick, pressure bomb, psychrometer. **8**, 73-80 (Dixon et al.)
- , *Pinus contorta*, moisture stress, osmotic potentials; Idaho, U.S.A., needles and stem tissues. **8**, 439-441 (Spomer and Stoszek)
- wax**, *Pinus strobus*, pollutants; New Brunswick, scanning electron microscopy. **8**, 474-477 (Percy and Riding)
- Weibull function**, growth curves; height-age, volume-age. **8**, 424-431 (Yang et al.)
- , *Pinus strobus*, seed dispersal; hardwood stands, modeling, seedling spatial patterns. **8**, 10-13 (Rudis et al.)
- whole-tree harvesting**, nitrogen availability, organic layers; modeling, forest floor biomass. **8**, 306-315 (Aber et al.)
- , nutrient depletion, *Pinus resinosa*, *Pinus banksiana*, *Pinus glauca*, *Populus tremuloides*, *Populus grandidentata*, biomass; Minnesota, U.S.A., soils. **8**, 290-299 (Alban et al.)
- wind throw**, container stock, *Pinus contorta*, root morphology; mechanical instability, planting methods. **8**, 483-486 (Burdett)
- wound reaction**, *Acer saccharum*, maple syrup, decay; northeastern United States, succession of microorganisms, paraformaldehyde. **8**, 54-60 (Walters and Shigo)
- wounds**, cation distribution, *Acer rubrum*; Maine, U.S.A., soil-applied potassium. **8**, 228-231 (Blanchard et al.)
- , traumatic tissue, barrier zone, *Liquidambar styraciflua*, decay, discolouration, compartmentalization; histochemistry, North Carolina U.S.A. **8**, 389-397 (Moore)
- X-ray densitometry**, annual ring; radial and transverse sections. **8**, 442-449 (Cown and Parker)

